

Nevada Growth Model (NGM) Rollout



Nevada Department of Education
Office of Assessment, Program Accountability, and
Curriculum

Purpose

The purpose of the Nevada Growth Model (NGM) is to provide a new way to track progress in student achievement — both growth of individual students and growth of groups of students.

This measure should help promote meaningful conversations across the state about what it takes to move students along in their learning

Where did the NGM come from?

- Assembly Bill 14 (NRS 385) provides for NDE to develop a growth measure for statewide use.
- Component of the State's Reform Agenda
- Component of a balanced assessment system

AB 14 (2009) reference

Section 1. Chapter 385 of NRS is hereby amended by adding:

1. The Department shall adopt a model to **measure the achievement of pupils enrolled in grades 3 to 8**, inclusive, based upon the results of the examinations administered pursuant to NRS 389.550. The model must be designed so that **the progress of pupils enrolled in a public school may be tracked from year to year to determine whether the school has made progress in the achievement of pupils.**

2. The board of trustees of each school district and the governing body of each charter school shall apply the model in the format required by the Department. The information collected must be **used to determine whether individual schools have made progress in the achievement of pupils.**

Nevada needs a growth measure.



- Nevada needs a growth measure.
- For the last decade, we have built an assessment and accountability system for public education that has a single, primary goal: to set a proficiency bar and hold students and schools accountable to meeting it.
- But we know that setting a proficiency goal is not enough to help all of our students grow and achieve the most they can.

What is student growth?

- Growth is change over time.
- USED defines *student growth* as the change in student achievement for an individual student between two or more points in time.
- Student growth in achievement is the rate of learning of a single student.
- Student growth can be aggregated at the level of teacher, school, or district.



What is the NGM?

Nevada Growth Model

1. The newest component of the state's educational measurement system.
2. A high-quality, valid and reliable measure of student academic growth.
3. Reported annually based on CRT results.
4. Accurate growth scores, even at the highest and lowest levels of academic achievement
4. As of 2011, Elementary and Middle Schools will receive growth scores for Mathematics and Reading.
5. NGM will most likely expand to include High School, PreK-2, Special Populations, and other subject areas.

What can the NGM do?

- The NGM results can help answer important questions such as,
 - *How much did my student's school grow this year?*
 - *How much would the school's student body need to grow in achievement to reach the proficiency target?*
 - *Is my student's school achieving in a way that will prepare students for life after high school?*
 - *What value has a teacher or school added to my student's education?*



What are the student growth scores (SGPs)?



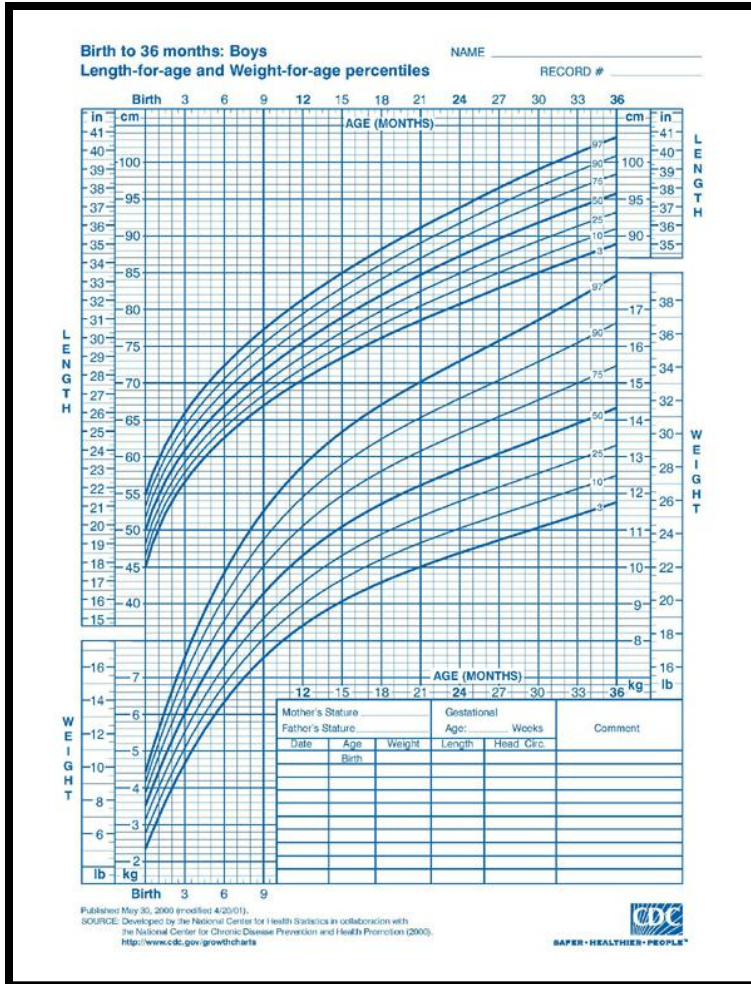
- Student growth percentiles (SGPs) report student growth.
- A student's achievement is compared to their academic peers - those students with the identical CRT score histories.
- Each student receives an SGP score.
- Median SGPs are then aggregated at the school level to produce the School Growth Score.

What can SGP scores tell us?

Students are ranked in percentiles, depending on how much they have grown from year to year.



What can SGP scores tell us?



The approach can be compared to the growth percentile you see at the doctor's office.

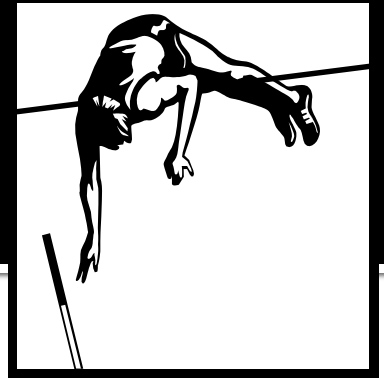
The doctor can use the chart to tell you how well your child is growing in height or weight in relation to their peers.

The NGM results tell you how well your student is growing in achievement in relation to his or her peers.

School Growth Scores

- Students' individual scores are ranked in percentiles, depending on how much they have grown from year to year.
- The median of these student scores produce a School Growth Score.
- The School Growth Scores can be categorized to help interpret what it means.

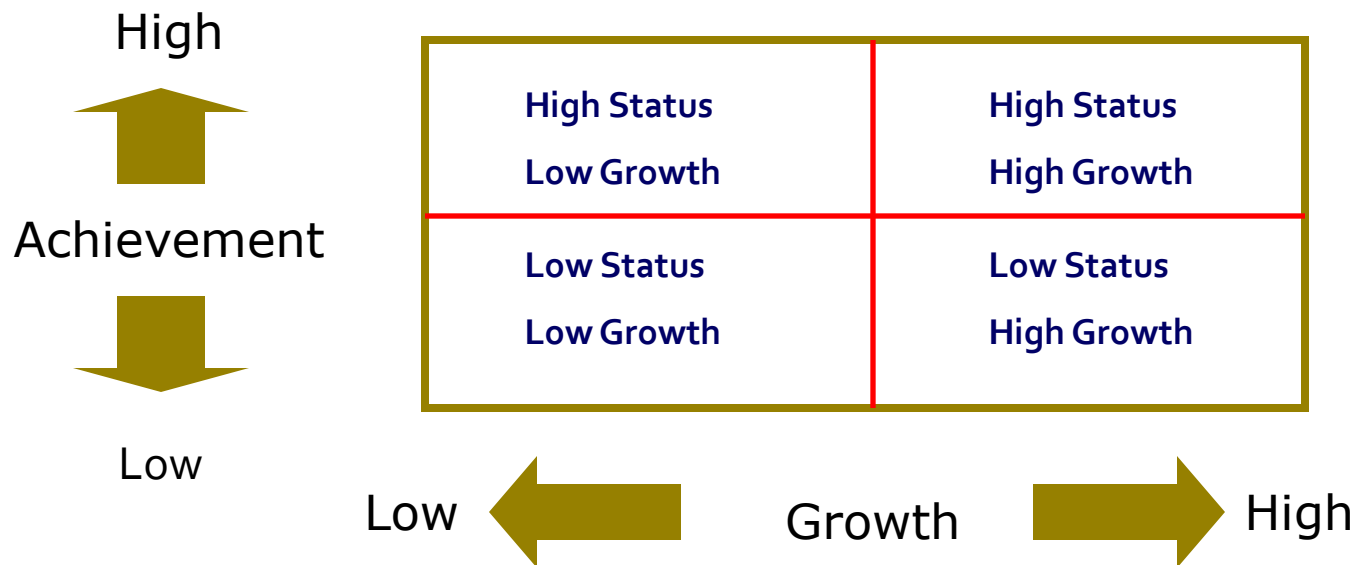
Growth vs. Achievement



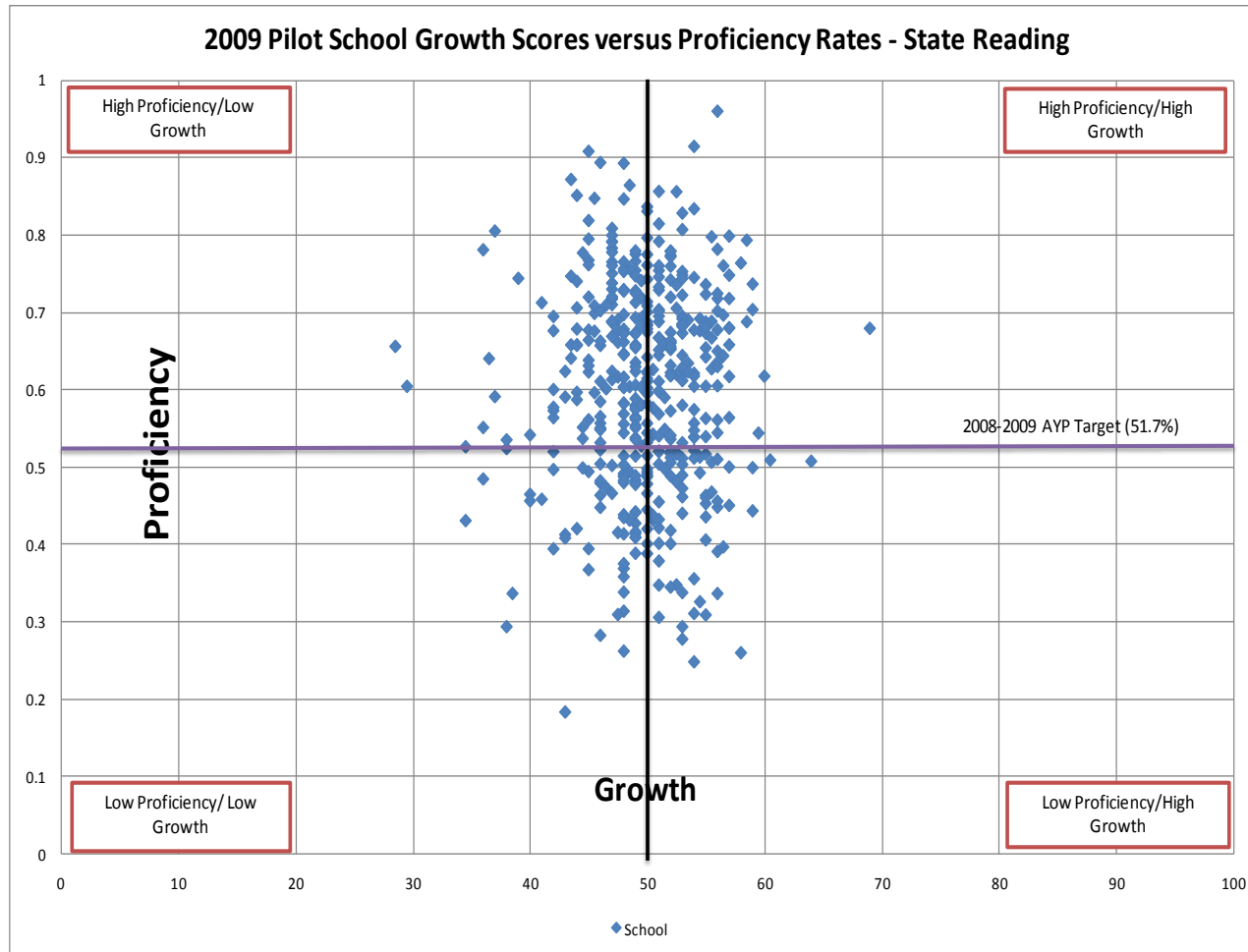
Growth tells us something different than achievement status.

- Achievement status tells us whether a school has *hit the bar*.
- Growth tells us how a school is moving students *toward (or past) the bar*.
- NGM results can complement measures of achievement status such as those used in adequate yearly progress reporting.

Understanding School Performance



Growth vs. Achievement example



By looking at both student growth and achievement, we get a clearer picture of how a school is performing.

The four quadrants of this chart show the state's schools and how they performed in terms of both growth and achievement.

Keep in mind...

- Teachers evaluate student growth all the time in various ways already.
- The NGM provides meaningful information to complement what we already know about student learning.

How was the NGM developed?

- In 2009-2010, the NGM was designed and piloted.
- The NGM was designed collaboratively with districts and NDE.
- Work was supported by Dr. Damian Betebenner of National Center for the Improvement of Educational Assessment.

Criteria for selecting a model

1. valid and reliable metric
2. communicable and technically sound
3. provide new information that is currently masked by AYP
4. be supported by the state's assessment data system
5. be compatible with our test scales
6. define legitimate criteria we can use in the future to determine what is "enough" growth

Next Steps

- The first results of School Growth Scores will be published by the NDE by early 2011:
 - January 2011 – School data to districts for internal review and evaluation
 - By August 15 – Official NDE School Growth Reports incorporated into the Report Card
- Communication Plan rollout
 - Purpose is to build trust around the measure
 - Superintendents, Principals, District Staff
 - Other stakeholders, users, and the public
- The NGM Steering Committee will guide the NDE as we develop the model to capture more information about student growth in achievement.

For More Information

Contact the Nevada Department of Education
Office of Assessment, Program Accountability,
and Curriculum

<http://nde.doe.nv.gov/APAC.htm>

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